Resource Summary Report

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FreeSurfer

RRID:SCR_001847
Type: Tool

Proper Citation

FreeSurfer (RRID:SCR_001847)

Resource Information

URL: http://surfer.nmr.mgh.harvard.edu/

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Description: Open source software suite for processing and analyzing human brain MRI images. Used for reconstruction of brain cortical surface from structural MRI data, and overlay of functional MRI data onto reconstructed surface. Contains automatic structural imaging stream for processing cross sectional and longitudinal data. Provides anatomical analysis tools, including: representation of cortical surface between white and gray matter, representation of the pial surface, segmentation of white matter from rest of brain, skull stripping, B1 bias field correction, nonlinear registration of cortical surface of individual with stereotaxic atlas, labeling of regions of cortical surface, statistical analysis of group morphometry differences, and labeling of subcortical brain structures.Operating System: Linux, macOS.

Abbreviations: FreeSurfer

Resource Type: data processing software, data visualization software, image analysis software, software application, software resource

Defining Citation: PMID:22248573

Keywords: processing, analysis, human, brain, MRI, image, reconstruction, cortical, surface, fMRI, data

Funding: NCRR RR014075;
NCRR U24 RR021382;
NINDS R01 NS052585

Availability: Free, Available for download, Freely available

Resource Name: FreeSurfer

Resource ID: SCR_001847

Alternate IDs: nif-0000-00304

Alternate URLs: https://sources.debian.org/src/freesurfer/, http://www.nitrc.org/projects/freesurfer, http://surfer.nmr.mgh.harvard.edu/fswiki/DownloadAndInstall

License: FreeSurfer License

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260912T195532+0000

Ratings and Alerts

No rating or validation information has been found for FreeSurfer.

No alerts have been found for FreeSurfer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 12664 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Stasiak JE, et al. (2026) Integrated Representations of Threat and Controllability in the Lateral Frontal Pole. Journal of cognitive neuroscience, 38(5), 1000.

Audrain S, et al. (2026) The Development of Hippocampal-Cortical Functional Connectivity in Infants and Toddlers. Human brain mapping, 47(4), e70475.

Stevenson N, et al. (2026) Building bridges between brain and behavior: An open-source toolbox for joint modeling with fMRI. Imaging neuroscience (Cambridge, Mass.), 4.

Crawford JL, et al. (2026) Dissociable Mechanisms Underlie Differences Between Memory and Metamemory in Older Adults: The Differentiating Role of Anxiety and Depression Symptoms. Hippocampus, 36(3), e70100.

Quattrocchi CC, et al. (2026) Quadrato Motor Training in Parkinson's Disease: Resting-State fMRI Changes and Exploratory Whole-Brain Radiomics. Bioengineering (Basel, Switzerland), 13(5).

McKay CC, et al. (2026) Agreement between FreeSurfer and CAT12 Cortical Thickness Measurements: A Discovery and a Replication Study in Children/Adolescents. Brain topography, 39(3).

Ayzenberg V, et al. (2026) Functional organization of the human visual system at birth and across late gestation. Neuron.

Endres KJ, et al. (2026) Fasting ghrelin as mediator between obesity and depressive symptoms: a pre-registered study. Npj mental health research, 5(1).

Kosik-Rose E, et al. (2026) Cycle-by-cycle respiration waveforms are coupled with the shape of neural oscillations. bioRxiv : the preprint server for biology.

St-Laurent M, et al. (2026) CNeuroMod-THINGS, a densely-sampled fMRI dataset for visual neuroscience. Scientific data, 13(1), 141.

Qu S, et al. (2026) Advancing whole-brain BOLD functional MRI in humans at 10.5???T with motion-robust 3D echo-planar imaging, parallel transmission, and high-density radiofrequency receive coils. Magnetic resonance in medicine, 95(2), 1068.

Merritt H, et al. (2026) The dual interpretation of edge time series: Time-varying connectivity versus statistical interaction. iScience, 29(6), 115949.

Novelli L, et al. (2026) PsiConnect: Multimodal Neuroimaging of Context-Dependent Brain and Behaviour Dynamics under Psilocybin. Scientific data.

Camacho PB, et al. (2026) Study protocol for the Champaign-Urbana population study. Frontiers in neuroimaging, 5, 1728970.

Brannigan K, et al. (2026) Hippocampal connectivity predicting recognition and categorization abilities. Frontiers in cognition, 5, 1765217.

Yan X, et al. (2026) Shared neural geometries for bilingual semantic representations in human hippocampal neurons. Cell.

Centanino V, et al. (2026) Neuronal populations across the cortex underlie discrete, categorical, and subjective representations of visual durations. PLoS biology, 24(3), e3003704.

Qu Y, et al. (2026) Development of non-spatial grid-like neural codes tracks inference and intelligence. Cell, 189(10), 3091.

Grossman CD, et al. (2026) The representation and valuation of subgoals in the human brain during model-based hierarchical behavior. Neuron, 114(7), 1306.

David I, et al. (2026) Distance- and hierarchy-dependent functional dysconnectivity in schizophrenia and its association with cortical microstructure. NeuroImage. Clinical, 49, 103958.